

FlyCAM UART SYNTAX 1.2

FIGs

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Reviewed by:

Command	Byte	
TX	NNN0	CCCC
RX	NNN1	CCCC
DATA	DDDD	DDDD
NOP	XXXX	X000

X = Don't Care

N = Number of Data Bytes * 2

Example: 010 = 2 * 2 = 4 Bytes

TX Types	Byte	
GET	NNN0	0CCC
SET	NNN0	1CCC

RX Types	Byte	
Error	NNN1	0CCC
Data	NNN1	1CCC

GET Commands	Byte	
Velocity	NNN0	0001
Acceleration	NNN0	0010
Jerk	NNN0	0011
Lower Displacement (X,Y)	NNN0	0100
Upper Displacement (X,Y)	NNN0	0101
All	1110	0110

Note:

Displacement contains both the X and Y values so NNN needs to be a multiple of 4.
All gets Velocity, Acceleration, Jerk, Lower and Upper Displacements in that order.

SET Commands	Byte	
Velocity	0010	1001
Acceleration	0010	1010
Jerk	0010	1011
Velocity & Acceleration	0100	1100
Velocity & Jerk	0100	1101
Acceleration & Jerk	0100	1110
All	0110	1111

RESPONSE ERROR	Byte	
FIFO Full	0001	0101
EMERGENCY	0001	0111

RESPONSE DATA	Byte	
Velocity	NNN1	1001
Acceleration	NNN1	1010
Jerk	NNN1	1011
Lower Displacement (X,Y)	NNN1	1100
Upper Displacement (X,Y)	NNN1	1101
All	1111	1110